CATERPILLAR®

Caterpillar Inc.
100 NE Adams Street
Peoria, Illinois 61629 - 3315

July 5, 1990

Mr. Daniel Sullivan
Ecology and Environment, Inc.
111 West Jackson Blvd.
Chicago, IL 60604

Dear Mr. Sullivan:

Texaco Inc. Sales Terminal

Dear Mr. Sullivan:

Enclosed are the following documents you requested during the site evaluation of the former Texaco terminal on June 26, 1990.

- Test boring reports for monitoring wells MW-3 through MW-7 completed in 1987.
- A location drawing of MW-3 through MW-7.
- Groundwater monitoring well installation details for MW-3 through MW-7.
- Groundwater analyses from MW-3 through MW-7 for 1988, 1989 and 1990.

If you have any questions, please contact me.

Very truly yours,

RR Kilgo

Environmental Affairs
Technical Services

RRKilgo
Telephone: (309) 675-5547
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Enc.

TRINE ENVIRONMENTAL CONSULTANTS — TEST BORING REPORT

BORING NO. MW-3

PROJECT: Groundwater Assessment
CLIENT: Caterpillar, Inc.
CONTRACTOR: PSI
EQUIPMENT USED: CME-55

JOB NO. F-1376
PAGE NO. 1 of 2
LOCATION: East Peoria, IL
ELEVATION:
DATE START: 3/24/87
DATE FINISH: 3/24/87
DRILLER: B. Williamson
PREPARED BY: P.W. Albenesius

GROUNDWATER		DEPTH TO:			CASING	SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE			
3/24	--	UR	--	--	TYPE	S	--
					SIZE ID	1 7/8"	--
					HAMMER WT	140 lbs	
					HAMMER FALL	30"	

DEPTH IN FEET	CASING BLOWS PER FOOT	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
					Note: Auger cuttings from 0-5': dark brown, dry, mostly fine sand, some silt, red brick frags, glass (fill).
5					Note: Cuttings from 8-10': light brown, moist, mostly silt, little fine sand, no plasticity.
10		9 10		10.0	Poorly graded sand with gravel (SP)
		9 10	NR	12.0	Brown, dry, mostly fine sand, some fine, subrounded to rounded gravel. (25% recovery)
					Note: Cuttings from 12-15'; brown, moist, mostly fine gravel, subrounded to rounded, some fine sand.
15		5 5	S1	15.0 16.0	Well graded sand (SW)
		3 3	S1A	16.0 17.0	Light brown, moist, mostly coarse sand, little fine sand, little fine gravel. Note: Strong hydrocarbon odor
		5 4 4 3	S2	17.0 19.0	Poorly graded gravel with sand (GP) Dark gray to black, wet, mostly fine gravel, some fine sand, subrounded to rounded, very loose, strong hydrocarbon odor. (50% recovery)
20					

BLOWS/FT.	DENSITY	BLOWS/FT.	CONSISTENCY	SAMPLE ID.		COMPONENT %		GROUNDWATER ABBREV.
0-4	VERY LOOSE	0-2	VERY SOFT	S	SPLIT SPOON	MOSTLY	50-100 %	WD - WHILE DRILLING
5-10	LOOSE	3-4	SOFT	T	TUBE	SOME	30-45 %	NE - NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	U	UNDISTURBED PISTON	LITTLE	15-25 %	UR - NOT READ
31-50	DENSE	9-15	STIFF	G	GRAB SAMPLE	FEW	5-10 %	
51+	VERY DENSE	16-30	VERY STIFF	X	OTHER	TRACE	<5 %	BORING NO. MW-3
		31+	HARD	NR	NO RECOVERY			

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TEST BORING REPORT

BORING NO. MW-3

PAGE 2 OF 2

DEPTH IN FEET	CASING BLOWS PER FOOT	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
					Poorly graded gravel with sand (GP)
		7		21.5	No hydrocarbon odor.
		3	S3	22.5	
		2	S3A	22.5/23.0	
		2	S3B	23.0/23.5	Organic Silt (ML)
					Dark grey to black, moist, mostly silt, few fine sand, decaying organic matter, H_2S odor.
25		4		24.0	Poorly graded sand (SP)
		2	S4		Dark grey, wet, mostly fine sand, few fine rounded gravel,
		4		25.5	
		4	S4A		Organic Silt (ML) See S3B
		10		26.5	Clayey silt (ML)
		5			Dark grey, moist, mostly silt, some clay, low to medium
		3	S5	28.5	plasticity.
		3			
30					Bottom of Exploration 28'

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
51+	VERY DENSE

BLOWS/FT	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

SAMPLE ID.	
S	SPLIT SPOON
T	TUBE
U	UNDISTURBED PISTON
G	GRAB SAMPLE
X	OTHER
NR	NO RECOVERY

COMPONENT %	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

GROUNDWATER ABBREV.
WD-WHILE DRILLING
NE-NOT ENCOUNTERED
UR-NOT READ

BORING NO. MW-3

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TEST BORING REPORT

BORING NO. MW-4 / B104

PROJECT: Groundwater Assessment
CLIENT: Caterpillar, Inc.
CONTRACTOR: Professional Service Industries, Inc.
EQUIPMENT USED: CME-45 Truck

JOB NO. F-1376
PAGE NO. 1 of 1
LOCATION: See plan
ELEVATION: Approx. 451
DATE START: 3 December 1986
DATE FINISH: 3 December 1986
DRILLER: Kieth Holm
PREPARED BY J.S. Chamness

GROUNDWATER		DEPTH TO:			CASING SAMPLER			CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE	HSA	S	
			17.0 ft	17.0ft	SIZE ID	3-¼ in	1-3/8in	
					HAMMER WT		140 lb	
					HAMMER FALL		30 in	

DEPTH IN FEET	CASING BLOWS PER FOOT	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5		1 1 2	S1	5.0 6.5	Peat (OL) Black, moist, mostly fibrous peat, trace fine and gravel. NOTE: strong hydrocarbon odor --FILL--
		1 2 1	S2	6.5 8.0	
		1 2 4	S3	8.0 9.5	9.0 ft.
10		6 4 2	S4	9.5 11.0	Well graded sand (SW) --FILL-- Dark brown, wet, mostly fine to coarse sand, little silt, few fine gravel. NOTE: hydrocarbon odor
		2 1 1	S5	11.0 12.5	13.0 ft.
		1 1 1	S6	12.5 14.0	Silt (ML) Gray, wet, mostly silt, few to little clay, occasional fine sand layers, trace organics NOTE: No noticeable hydrocarbon odor
15		1 1 1	S7	14.0 15.5	
		1 1 1	S8	15.5 17.0	17.0 ft.
20					BOTTOM OF EXCAVATION 17.0 ft. NOTE: 1) S3: Oil & grease: 2600 mg/kg; total hydrocarbon: 1800 mg/kg 2) Installed permanent monitoring well, March 1987 3) No noticeable hydrocarbon odor below 13.0 ft.

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
51+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

SAMPLE ID.	
S	SPLIT SPOON
T	TUBE
U	UNDISTURBED PISTON
G	GRAB SAMPLE
X	OTHER
NR	NO RECOVERY

COMPONENT %	
MOSTLY	50-100 %
SOME	30-45 %
LITTLE	15-25 %
FEW	5-10 %
TRACE	<5 %

GROUNDWATER ABBREV.
WD - WHILE DRILLING
NE - NOT ENCOUNTERED
UR - NOT READ

BORING NO. MW-4

TEST BORING REPORT

BORING NO. MW-5

PROJECT: Groundwater Assessment
CLIENT: Caterpillar, Inc.
CONTRACTOR: PSI
EQUIPMENT USED: CME-55

JOB NO. F-1376
PAGE NO. 1 of 1
LOCATION: East Peoria, IL
ELEVATION: Approx 452
DATE START: 3/20/87
DATE FINISH: 3/20/87
DRILLER: M. Henderson
PREPARED BY: P.W. Albenesisus

GROUNDWATER		DEPTH TO:			CASING	SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE			
3/20	WD	14'0"	17'0"	17'0"	TYPE --	S	
3/20	1	14'9"	15'5"	15'5"	SIZE ID --	1 7/8"	
3/21	24	10'0"	15'5"	15'5"	HAMMER WT --	140 lbs	
					HAMMER FALL --	30"	

DEPTH IN FEET	CASING BLOWS PER FOOT	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
					Note: Auger cuttings from 0-3.5' are tan, dry, fine sand with some shells. Probably fill.
5		8 3 4	S1	3.5 -- 5.0	Poorly Graded Sand with silt or clay (SP-SM) Tan, dry, mostly fine sand, little to some shell frags, few silt or clay; cinders in tip of spoon.
					Note: Auger cuttings from 7-8.5, dark grey, moist to wet, mostly fine sand. Strong hydrocarbon odor. Wet cuttings at 8.5'.
10		4 2 2	S2	8.5 —— 10.0	Silty Clay (CL) Dark grey, moist, mostly clay, few silt, highly plastic, strong hydrocarbon odor.
		2 2 1	S3	10.0 —— 11.5	Silty Sand (SP-SM) Grey to black, wet, mostly silt, some fine sand grading to mostly fine sand, some silt. Trace roots and fibers throughout. Strong hydrocarbon odor throughout.
		2 1 1	S4	11.5 -- 13.0	
		0 0 1	S5	13.0 -- 14.5	Poorly graded sand (SP) and layers of silty clay (CL) Gray, wet, mostly fine sand, trace silt with occasional layers of wet, mostly silty clay.
15					
		Drop* 3 3	S6	17.0 -- 18.5	Silt with sand (ML) Gray to black, moist, mostly silt, some to little fine sand, low plasticity.
					Bottom of Exploration 18.5 ft.
20					* Driller inadvertently dropped hammer through 6" of sample.

BLOWS/FT.	DENSITY	BLOWS/FT	CONSISTENCY	SAMPLE ID.		COMPONENT %		GROUNDWATER ABBREV.
0-4	VERY LOOSE	0-2	VERY SOFT	S	SPLIT SPOON	MOSTLY	50-100 %	WD - WHILE DRILLING
5-10	LOOSE	3-4	SOFT	T	TUBE	SOME	30-45 %	NE - NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	U	UNDISTURBED PISTON	LITTLE	15-25 %	UR - NOT READ
31-50	DENSE	9-15	STIFF	G	GRAB SAMPLE	FEW	5-10 %	
51+	VERY DENSE	16-30	VERY STIFF	X	OTHER	TRACE	<5 %	BORING NO. MW-5
		31+	HARD	NR	NO RECOVERY			

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TEST BORING REPORT

BORING NO. MW-6

PROJECT: Groundwater Assessment
CLIENT: Caterpillar Inc.
CONTRACTOR: PSI
EQUIPMENT USED: CME-45

JOB NO. F-1376
PAGE NO. 1 of 1
LOCATION: East Peoria, IL
ELEVATION: Approx. 452
DATE START: 3/21/87
DATE FINISH: 3/22/87
DRILLER: M. Henderson
PREPARED BY: P.W. Albenesius

GROUNDWATER		DEPTH TO:			CASING	SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE	S	--
3/21	WD	15'	20'	20'	SIZE ID	1 7/8"	--
					HAMMER WT	140 lbs	X
					HAMMER FALL	30"	X

DEPTH IN FEET	CASING BLOWS PER FOOT	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
					Note: Cuttings from 0-4': Brown, dry, mostly fine sand, some rounded gravel (fine), little shells. 4'-5' cutting same as above but moist and lighter brown.
5					Poorly graded sand with gravel (SP)
		3 4 3	S1	5.0 -- 6.5	Light brown, dry, mostly fine sand, few medium sand, few coarse gravel (30 mm) sand is rounded; cinders in tip of spoon.
					Note: Cuttings wet at 7.5': gray to black, mostly fine sand, some silt, few fine gravel.
		4 4 2	S2	8.5 -- 10.0	Silty clay (CL) Gray moist, mostly clay, some silt, little rubble and fine sand.
10					
		1 0 0	S3	10.0 -- 11.5	Clayey silt (ML) Gray wet, mostly silt, some to little clay, loose, medium plasticity. 1" seam of fine sand at 11.0'.
		0 1 1	S4	11.5 -- 13.0	Disturbed sample, very wet and fragmented: gray wet, mostly silt, little fine sand, faintly laminated, very loose.
		0 1 1	S5	13.0 -- 14.5	Silt (ML) Gray wet, mostly silt, fine clay, faintly laminated, pasty, H_2S odor; fine sand in tip of spoon.
15		2 3 3	S6	14.5 -- 16.0	Poorly graded sand (SP) Gray wet, mostly fine sand (6" thick).
		0 1	S7	16.0 17.0	Note: Auger dropped 6" from its own weight from 14.5-15.0' Note: 6" layer silt with fine sand at 16.0 ft. to 16.5 ft.
		2 0	S7A	17.0 18.0	
		1 1		18.0 19.0	(Driller hammered last spoon for his own purposes) Clayey Silt (ML)
20					Gray to black, moist, mostly silt, little clay, little wood chips and root fibers (trace of peat.)
					BOTTOM OF EXPLORATION AT 19.0 ft.

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
51+	VERY DENSE

BLOWS/FT.	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31+	HARD

SAMPLE ID.	
S	SPLIT SPOON
T	TUBE
U	UNDISTURBED PISTON
G	GRAB SAMPLE
X	OTHER
NR	NO RECOVERY

COMPONENT	%
MOSTLY	50-100 %
SOME	30-45 %
LITTLE	15-25 %
FEW	5-10 %
TRACE	<5 %

GROUNDWATER ABBREV.
WD - WHILE DRILLING
NE - NOT ENCOUNTERED
UR - NOT READ

BORING NO. MW-6

...IRONMENTAL INSULTANTS TEST BORING REPORT

BORING NO. MW-7

PROJECT: Groundwater Assessment
CLIENT: Caterpillar, Inc.
CONTRACTOR: PSI
EQUIPMENT USED: CME-45

JOB NO. F-1376
PAGE NO. 1 of 2
LOCATION: East Peoria, IL
ELEVATION:
DATE START: 3/20/87
DATE FINISH: 3/
DRILLER: M. Henderson
PREPARED BY: P.W. Albenesius

GROUNDWATER		DEPTH TO:			CASING	SAMPLER	CORE BARREL
DATE	HRS AFTER COMP	WATER	BOTTOM OF CASING	BOTTOM OF HOLE	TYPE	S	--
3/20	WD	19.0"	20.0'	20.0'	SIZE ID	1 7/8"	--
3/20	2	20.4"	23.0'	23.0'	HAMMER WT	140 lbs	
3/24	9.6	7.0"	20.0'	20.0'	HAMMER FALL	30"	

DEPTH IN FEET	CASING BLOWS PER FOOT	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
		6		3.5	Poorly graded gravel with sand (GP)
		4	S1		Brown to black, moist, mostly fine gravel, some coarse to
5		2		5.0	fine sand, little clay, few glass, rubble. Gravel subrounded to angular.
		1		8.5	
		1	S2		Clayey silt (ML)
		1		10.0	Gray, moist to wet, mostly silt, some clay, laminations (gray and tan). Material loosens with depth
10					
		0		13.5	Clayey silt (ML)
		1	S3		Gray, wet, mostly silt, some clay, medium plasticity, sticky.
15		1		15.0	2" layer of fine sand with few silt or clay at 14.0'.
				18.5	
			S4		Silty Clay (CL)
20				20.0	Gray, wet, mostly clay, some silt, medium plasticity, H_2S
					3" layer of poorly graded fine sand, little silt or clay at 19.0

BLOWS/FT.	DENSITY	BLOWS/FT	CONSISTENCY	SAMPLE ID.		COMPONENT %		GROUNDWATER ABBREV.
0-4	VERY LOOSE	0-2	VERY SOFT	S	SPLIT SPOON	MOSTLY	50-100 %	WD - WHILE DRILLING
5-10	LOOSE	3-4	SOFT	T	TUBE	SOME	30-45 %	NE - NOT ENCOUNTERED
11-30	MEDIUM DENSE	5-8	MEDIUM STIFF	U	UNDISTURBED PISTON	LITTLE	15-25 %	UR - NOT READ
31-50	DENSE	9-15	STIFF	G	GRAB SAMPLE	FEW	5-10 %	
51+	VERY DENSE	16-30	VERY STIFF	X	OTHER	TRACE	<5 %	BORING NO. MW-7
		31+	HARD	NR	NO RECOVERY			

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TEST BORING REPORT

BORING NO. MW-7

DEPTH IN FEET	CASING BLOWS PER FOOT	SAMPLER BLOWS PER 6 INCHES	SAMPLE NUMBER	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
20		1	S5	20.0	
		1		21.0	Silty or clayey gravel (GM/GC)
		2	S5A	21.0/21.5	Dark brown, wet, mostly fine gravel and coarse to fine sand, some silt or clay, few clay. Gravel angular to rounded. (Poor recovery)
		0		21.5	
		1	S6	23.0	Clay (CL)
		2			Bottom 12" is dark gray, moist, mostly clay, high plasticity.
25					
					BOTTOM EXPLORATION AT 23.0 ft.
30					
35					
40					
45					

BLOWS/FT.	DENSITY
0-4	VERY LOOSE
5-10	LOOSE
11-30	MEDIUM DENSE
31-50	DENSE
51-	VERY DENSE

BLOWS/FT	CONSISTENCY
0-2	VERY SOFT
3-4	SOFT
5-8	MEDIUM STIFF
9-15	STIFF
16-30	VERY STIFF
31-	HARD

SAMPLE ID.	
S	SPLIT SPOON
T	TUBE
U	UNDISTURBED PISTON
G	GRAB SAMPLE
X	OTHER
NR	NO RECOVERY

COMPONENT %	
MOSTLY	50-100%
SOME	30-45%
LITTLE	15-25%
FEW	5-10%
TRACE	<5%

GROUNDWATER ABBREV
WD-WHILE DRILLING
NE-NOT ENCOUNTERED
UR-NOT READ

SIRRINE ENVIRONMENTAL CONSULTANTS

GROUNDWATER MONITORING INSTALLATION DETAIL

PROJECT: Groundwater Assessment
JOB NO. F-1376

LOCATION: Caterpillar, Inc. East Peoria, IL
INSTALLATION NO. MW-3

CLIENT: Caterpillar, Inc.
TYPE OF INSTALLATION Permanent Monitoring Well

CONTRACTOR: Professional Service Industries

DRILLER: B. Williamson CERTIFICATION NO:
BORING NO. MW-3

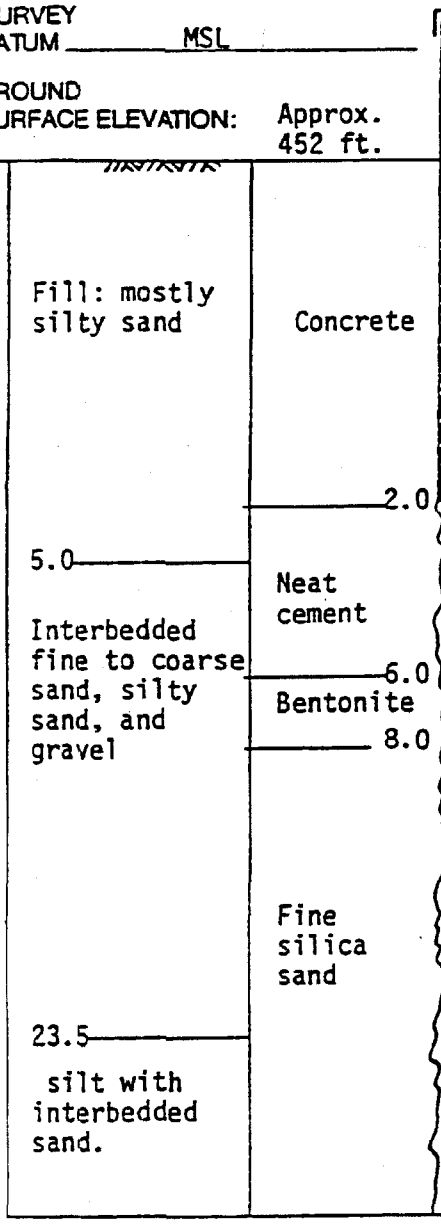
CRSS FIELD REPRESENTATIVE: P. W. Albenisius
LOCATION See Plan

P.E.: Gordon Peterson, P.E.
INSTALLATION DATE 3/24/87

SURVEY DATUM MSL

GROUND SURFACE ELEVATION: Approx. 452 ft.

SUMMARIZE SOIL CONDITIONS, BACKFILL AND SEALS (NOT TO SCALE)



TOP OF PROTECTIVE CASING (CAP OPEN) EL ____ STICKUP 3.0 ft.

TOP OF WELL CASING OR RISER PIPE EL ____ STICKUP 2.5 ft.

TYPE OF SURFACE SEAL: neat cement
THICKNESS OF SURFACE SEAL: 2.0 ft.

TYPE OF PROTECTIVE CASING: steel
INSIDE DIAMETER: 4.0 in.
TOTAL LENGTH: 5.0 ft.

BOTTOM OF PROTECTIVE CASING EL ____ DEPTH 2.0 ft.

TYPE OF WELL CASING OR RISER PIPE: Sch. 40 PVC
INSIDE DIAMETER: 2.0 in.

APPROXIMATE DIAMETER OF BOREHOLE: 10 in.

TOP OF WELLPOINT EL ____ DEPTH 10.0 ft.

TYPE OF WELLPOINT: Machine slotted Triloc PVC
SCREEN GAUGE OR SIZE OF OPENINGS: 0.010 in.
INSIDE DIAMETER: 2.0 in.
TYPE OF BACKFILL AROUND POINT: Fine sand

BOTTOM OF WELL POINT EL ____ DEPTH 25.0 ft.

BOTTOM OF BOREHOLE EL ____ DEPTH 26.0 ft.

- FIGURES ABOVE REFER TO DEPTH IN FEET
- ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

12.5 ft. (LENGTH OF RISER PIPE) + 15.0 ft. (LENGTH OF POINT) = 27.5 ft. (TOTAL)

BENTONITE SEALS

CRSS FORM 106 9-2-86

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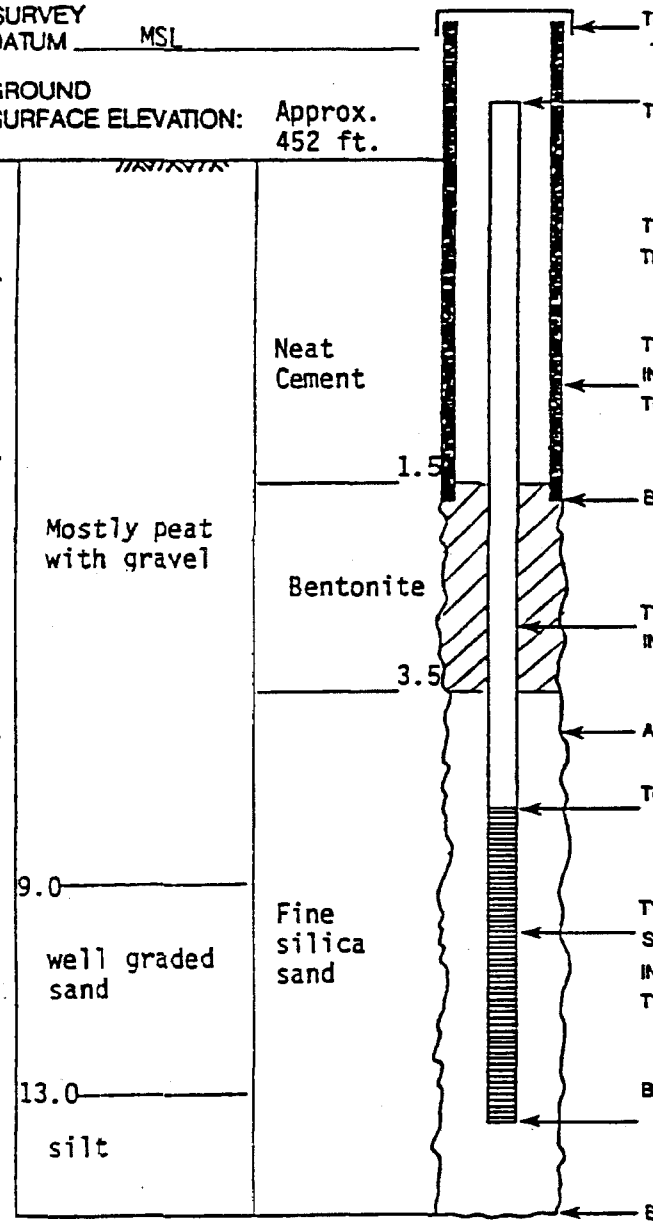
GROUNDWATER MONITORING INSTALLATION DETAIL

PROJECT: Groundwater Assessment
JOB NO. F-1376
LOCATION: Caterpillar, Inc., East Peioria, IL
INSTALLATION NO. MW-4
CLIENT: Caterpillar, Inc.
TYPE OF INSTALLATION Permanent
CONTRACTOR: Professional Service Industries
Monitoring Well
DRILLER: M. Henderson CERTIFICATION NO: ----------
BORING NO. B-104
CRSS FIELD REPRESENTATIVE: P. W. Albenisius
LOCATION See Plan
P.E.: Gordon Peterson, P.E.
INSTALLATION DATE 3/21/87

SURVEY DATUM MSL
GROUND SURFACE ELEVATION: Approx. 452 ft.

SUMMARIZE SOIL CONDITIONS, BACKFILL AND SEALS (NOT TO SCALE)



TOP OF PROTECTIVE CASING (CAP OPEN) EL ____ STICKUP 3.0 ft.
TOP OF WELL CASING OR RISER PIPE EL ____ STICKUP 2.5 ft.
TYPE OF SURFACE SEAL neat cement
THICKNESS OF SURFACE SEAL 1.5 ft.
TYPE OF PROTECTIVE CASING steel
INSIDE DIAMETER 6.0 in.
TOTAL LENGTH 5.0 ft.
BOTTOM OF PROTECTIVE CASING EL ____ DEPTH 2.0 ft.
TYPE OF WELL CASING OR RISER PIPE Sch. 40 PVC
INSIDE DIAMETER 2.0 in.
APPROXIMATE DIAMETER OF BOREHOLE 10 in.
TOP OF WELLPOINT EL ____ DEPTH 5.5 ft.
TYPE OF WELLPOINT Machine slotted Triloc PVC
SCREEN GAUGE OR SIZE OF OPENINGS 0.010 in.
INSIDE DIAMETER 2.0 in.
TYPE OF BACKFILL AROUND POINT Fine sand
BOTTOM OF WELL POINT EL ____ DEPTH 15.5 ft.
BOTTOM OF BOREHOLE EL ____ DEPTH 16.5 ft.

- FIGURES ABOVE REFER TO DEPTH IN FEET
- ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

8.0 ft.	+	10.0 ft.	=	18.0 ft.
LENGTH OF RISER PIPE		LENGTH OF POINT		TOTAL

BENTONITE SEALS

CRSS FORM 106 9-2-86

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ONSULTANTS

GROUNDWATER MONITORING INSTALLATION DETAIL

PROJECT: Groundwater Assessment
JOB NO. F-1376
LOCATION: Caterpillar, Inc., East Peoria, IL
INSTALLATION NO. MW-5
CLIENT: Caterpillar, Inc.
TYPE OF INSTALLATION Permanent
CONTRACTOR: Professional Service Industries
Monitoring Well
DRILLER: M. Henderson CERTIFICATION NO: ---------
BORING NO. MW-5
CRSS FIELD REPRESENTATIVE: P. W. Albenisius
LOCATION See Plan
P.E.: Gordon Peterson, P.E.
INSTALLATION DATE 3/20/87

SURVEY DATUM MSL
GROUND SURFACE ELEVATION: Approx. 452 ft.

SUMMARIZE SOIL CONDITIONS, BACKFILL AND SEALS (NOT TO SCALE)

Poorly graded sand with some inter-bedded silt.

1.5

Neat cement

3.5

Bentonite

8.5

Interbedded silty clay, sand, and silty sand

Fine silica sand

TOP OF PROTECTIVE CASING (CAP OPEN)
EL ____ STICKUP 3.0 ft.

TOP OF WELL CASING OR RISER PIPE
EL ____ STICKUP 2.5 ft.

TYPE OF SURFACE SEAL: neat cement
THICKNESS OF SURFACE SEAL: 1.5 ft.

TYPE OF PROTECTIVE CASING: steel
INSIDE DIAMETER: 6.0 in.
TOTAL LENGTH: 5.0 ft.

BOTTOM OF PROTECTIVE CASING
EL ____ DEPTH 2.0 ft.

TYPE OF WELL CASING OR RISER PIPE: Sch. 40 PVC
INSIDE DIAMETER: 2.0 in.

APPROXIMATE DIAMETER OF BOREHOLE: 10 in.

TOP OF WELLPOINT
EL ____ DEPTH 5.5 ft.

TYPE OF WELLPOINT: Machine slotted Triloc PVC
SCREEN GAUGE OR SIZE OF OPENINGS: 0.010 in.
INSIDE DIAMETER: 2.0 in.
TYPE OF BACKFILL AROUND POINT: Fine sand

BOTTOM OF WELL POINT
EL ____ DEPTH 15.5 ft.

BOTTOM OF BOREHOLE
EL ____ DEPTH 16.5 ft.

- FIGURES ABOVE REFER TO DEPTH IN FEET
- ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

8.0 ft.	+	10.0 ft.	=	18.0 ft.
LENGTH OF RISER PIPE		LENGTH OF POINT		TOTAL

BENTONITE SEALS

CRSS FORM 106 9-2-86

CRRINE
IVIRONMENTAL
ONSULTANTS

GROUNDWATER MONITORING INSTALLATION DETAIL

PROJECT: Groundwater Assessment
LOCATION: Caterpillar, Inc., East Peoria, IL
CLIENT: Caterpillar, Inc.
CONTRACTOR: Professional Service Industries
DRILLER: B. Williamson CERTIFICATION NO: ----------
CRSS FIELD REPRESENTATIVE: P. W. Albenisius
P.E.: Gordon Peterson, P.E.

JOB NO. F-1376
INSTALLATION NO. MW-6
TYPE OF INSTALLATION Permanent Monitoring Well
BORING NO. MW-6
LOCATION See Plan
INSTALLATION DATE 3/22/87

SURVEY DATUM MSL
GROUND SURFACE ELEVATION: Approx. 452 ft.

SUMMARIZE SOIL CONDITIONS, BACKFILL AND SEALS (NOT TO SCALE)

Poorly graded fine sand

Neat cement

1.0

Bentonite

3.0

8.5

Interbedded silty clay and fine sand.

Fine silica sand

TOP OF PROTECTIVE CASING (CAP OPEN) EL ____ STICKUP	3.0 ft.
TOP OF WELL CASING OR RISER PIPE EL ____ STICKUP	2.5 ft.
TYPE OF SURFACE SEAL	neat cement
THICKNESS OF SURFACE SEAL	1.0 ft.
TYPE OF PROTECTIVE CASING	steel
INSIDE DIAMETER	6.0 in.
TOTAL LENGTH	5.0 ft.
BOTTOM OF PROTECTIVE CASING EL ____ DEPTH	2.0 ft.
TYPE OF WELL CASING OR RISER PIPE	Sch. 40 PVC
INSIDE DIAMETER	2.0 in.
APPROXIMATE DIAMETER OF BOREHOLE	10 in.
TOP OF WELLPOINT EL ____ DEPTH	4.5 ft.
TYPE OF WELLPOINT	Machine slotted Triloc PVC
SCREEN GAUGE OR SIZE OF OPENINGS	0.010 in.
INSIDE DIAMETER	2.0 in.
TYPE OF BACKFILL AROUND POINT	Fine sand
BOTTOM OF WELL POINT EL ____ DEPTH	19.5 ft.
BOTTOM OF BOREHOLE EL ____ DEPTH	21.0 ft.

• FIGURES ABOVE REFER TO DEPTH IN FEET
• ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

7.0 ft. (LENGTH OF RISER PIPE) + 15.0 ft. (LENGTH OF POINT) = 22.0 ft. (TOTAL)

BENTONITE SEALS

CRSS FORM 106 9-2-86

IRRINE
VIRONMENTAL
ONSULTANTS

GROUNDWATER MONITORING INSTALLATION DETAIL

PROJECT: Groundwater Assessment
JOB NO. F-1376

LOCATION: Caterpillar, Inc., East Peoria, IL
INSTALLATION NO. MW-7

CLIENT: Caterpillar, Inc.
TYPE OF INSTALLATION Permanent Monitoring Well

CONTRACTOR: Professional Service industries
DRILLER: B. Williamson CERTIFICATION NO: ----------
BORING NO. MW-7

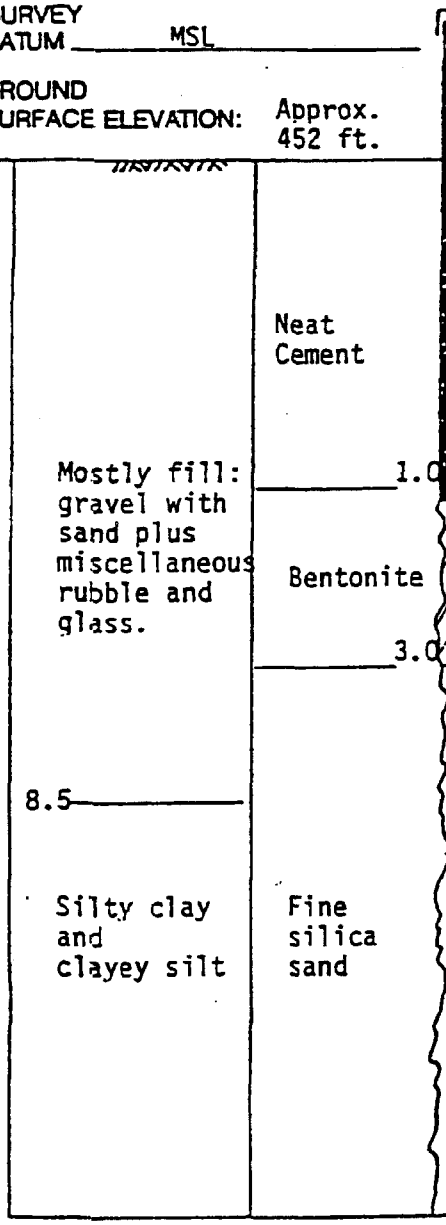
CRSS FIELD REPRESENTATIVE: P. W. Albenisius
LOCATION See Plan

P.E.: Gordon Peterson, P.E.
INSTALLATION DATE 3/23/87

SURVEY DATUM MSL

GROUND SURFACE ELEVATION: Approx. 452 ft.

SUMMARIZE SOIL CONDITIONS, BACKFILL AND SEALS (NOT TO SCALE)



TOP OF PROTECTIVE CASING (CAP OPEN) EL ____ STICKUP 3.0 ft.
TOP OF WELL CASING OR RISER PIPE EL ____ STICKUP 2.5 ft.
TYPE OF SURFACE SEAL: Neat Cement
THICKNESS OF SURFACE SEAL: 1.0 ft.
TYPE OF PROTECTIVE CASING: steel
INSIDE DIAMETER: 6.0 in.
TOTAL LENGTH: 5.0 ft.
BOTTOM OF PROTECTIVE CASING EL ____ DEPTH 2.0 ft.
TYPE OF WELL CASING OR RISER PIPE: Sch. 40 PVC
INSIDE DIAMETER: 2.0 in.
APPROXIMATE DIAMETER OF BOREHOLE: 10 in.
TOP OF WELLPOINT EL ____ DEPTH 5.0 ft.
TYPE OF WELLPOINT: Machine slotted Triloc PVC
SCREEN GAUGE OR SIZE OF OPENINGS: 0.010 in.
INSIDE DIAMETER: 2.0 in.
TYPE OF BACKFILL AROUND POINT: Fine sand
BOTTOM OF WELL POINT EL ____ DEPTH 20.0 ft.
BOTTOM OF BOREHOLE EL ____ DEPTH 22.0 ft.

- FIGURES ABOVE REFER TO DEPTH IN FEET
- ALL DEPTHS ARE REFERENCED TO GROUND SURFACE

7.5 ft. (LENGTH OF RISER PIPE) + 15.0 ft. (LENGTH OF POINT) = 22.5 ft. (TOTAL)

BENTONITE SEALS

CRSS FORM 108 9-2-86

MW3

DATE	CHROM TOT mg/l	LEAD TOT mg/l	OIL mg/l	PH	COND umho	BENZ ug/l	ETHY BENZ ug/l	TOL ug/l	XYL ug/l
1988									
1-20	<.01	<.01	3	7.4	1200	<5	<5	<5	<15
2-16	.02	<.01	2	7.14	1180				
3-15			2	7.23	1200				
4-19	<.01	<.01	<1	7.19	1380	<5		<5	<15
5-17	<.01	<.005	<1	7.28	1190				
6-15	<.01	<.01	<1	6.94	1280				
7-15	<.01	<.01	<1	6.77	1370	<5		<5	<15
8-19	<.01	<.01	<1		1470				
9-8	<.01	<.01	<1	7.19	1290				
12-14	<.01	<.01	4	7.07	1350				
1989									
1-17	<.01	0.01	<1	6.97	1410	<5	<5	<5	<15
2-16	<.01	<.01	2	6.82	1250				
3-17	<.01	<.005	6	7.12	1240				
4-18	<.01	<.005	2	7.05	1160	<5	<5	<5	<15
5-16	<.01	.007	2	7.24	1020				
6-16	<.01	<.005	3	7.03	1040				
8-15	<.01	<.01	<1	6.94	1450	<5		<5	<15
9-28	<.01	<.005	1	7.01	1420				
10-23	<.01	<.005	2	6.97	1480	<5	<5	<5	<15
11-13	<.01	<.005	<1	7.04	1400				
12-13	<.01	<.005	1						
1990									
1-16	<.01	<.005	3	7.01	1390	<5	<5	<5	<15
2-15	<.01	<.005	<1	7.01	1250				
3-16	<.01	<.005	2	6.8	910				
4-16	<.01	<.005	<1	7.02	970	<5	<5	<5	<15
5-18	<.01	<.005	2	7.08	1030				

MW4

DATE	CHROM TOT mg/l	LEAD TOT mg/l	OIL mg/l	PH	COND umho	BENZ ug/l	ETHY BENZ ug/l	TOL ug/l	XYL ug/l
1988									
1-20	<.01	<.01	3	7	1450	<5	<5	<5	<15
2-16	<.01	<.01	<1	6.84	1530				
3-15			1	6.93	1800				
4-19	<.01	<.01	<1	6.94	1500	<5		<5	<15
5-17	<.01	<.005	<12	6.97	1400				
6-15	<.01	<.01	<1	6.73	1410				
7-15	<.01	<.01	<1	6.43	1400	<5		<5	<15
8-19	<.01	<.01	<1		1510				
9-8	<.01	<.01	<1	6.98	1360				
12-14	<.01	<.01	4	6.8	1450				
1989									
1-17	<.01	0.01	<1	6.72	1570	<5	<5	<5	<15
2-16	<.01	<.01	<2	6.56	1380				
3-17	<.01	<.005	5	6.98	1380				
4-18	<.01	<.005	2	6.88	1300	<5	<5	<5	<15
5-16	<.01	.008	2	7.04	1110				
6-16	<.01	<.005	2	6.88	1120				
8-15	<.01	<.01	1	9.77	1610	<5		<5	<15
9-28	<.01	<.005	2	6.80	1580				
10-23	<.01	<.005	2	6.75	1570	<5	<5	<5	<15
11-13	<.01	<.005	<1	6.83	1540				
12-13	<.01	<.005	<1						
1990									
1-16	<.01	<.005	2	6.90	1350	<5	<5	<5	<15
2-15	<.01	<.005	<1	6.85	1400				
3-16	<.01	.02	2	6.61	1170				
4-16	<.01	<.005	<1	6.70	940	<5	<5	<5	<15
5-18	<.01	<.005	3	6.85	940				

MW5

DATE	CHROM TOT mg/l	LEAD TOT mg/l	OIL mg/l	PH	COND umho	BENZ ug/l	ETHY BENZ ug/l	TOL ug/l	XYL ug/l
1988									
1-20	<.01	<.01	5	7.01	870	<5	<5	<5	<15
2-16	<.01	<.01	<1	6.87	750				
3-15			<1	6.85	980				
4-19	<.01	<.01	<1	7.11	680	<5		<5	<15
5-17	<.01	<.005	3	7.08	800				
6-15	<.01	<.01	3	6.74	900				
7-15	<.01	<.01	1	6.54	1070	<5		<5	<15
8-19	<.01	<.01	<1		1260				
9-8	<.01	.01	<1	6.99	1180				
12-14	<.01	<.01	4	6.88	1240				
1989									
1-17	<.01	0.01	1	6.77	1280	<5	<5	<5	<15
2-16	<.01	<.01	2	6.72	1080				
3-17	<.01	<.005	2	7.2	1220				
4-18	<.01	<.005	2	6.88	1030	<5	<5	<5	<15
5-16	<.01	<.005	2	6.99	760				
6-16	<.01	<.005	<1	6.69	730				
8-15	<.01	<.01	2	6.77	1190	<5		<5	<15
9-28	<.01	<.005	3	6.81	830				
10-23	<.01	<.005	3	6.73	860	<5	<5	<5	<15
11-13	<.01	<.005	<1	6.76	960				
12-13	<.01	<.005	1						
1990									
1-16	<.01	<.005	3	6.95	1120	<5	<5	<5	<15
2-15	<.01	<.005	<1	6.87	1180				
3-16	<.01	.006	<1	6.69	790				
4-16	<.01	<.005	<1	6.78	520	<5	<5	<5	<15
5-18	<.01	<.005	4	7.11	520				

MW6

DATE	CHROM TOT mg/l	LEAD TOT mg/l	OIL mg/l	PH	COND umho	BENZ ug/l	ETHY BENZ ug/l	TOL ug/l	XYL ug/l
1988									
1-20	<.01	<.01	3	7.70	1140	<5	<5	<5	<15
2-16	<.01	<.01	<1	7.80	1120				
3-15			<1	7.74	1200				
4-19	<.01	<.01	1	7.52	1140	<5		<5	<15
5-17	<.01	<.005	<2	7.62	1100				
6-15	<.01	<.01	<1	7.37	1020				
7-15	<.01	<.01	1	7.19	1060	<5		<5	<15
8-19	<.01	<.01	<1		1170				
9-8	<.01	<.01	<1	7.41	1090				
12-14	<.01	.01	3	7.44	1100				
1989									
1-17	<.01	0.01	2	7.43	1140	<5	<5	<5	<15
2-16	<.01	<.01	2	7.26	1120				
3-17	<.01	<.005	<2	7.72	1170				
4-18	<.01	<.005	3	7.49	1100	<5	<5	<5	<15
5-16	<.01	<.005	2	7.63	1000				
6-16	<.01	<.005	2	7.36	990				
8-15	<.01	<.01	2	7.28	1150	<5		<5	<15
9-28	<.01	<.005	2	7.46	1220				
10-23	<.01	<.005	2	7.48	1160	<5	<5	<5	<15
11-13	<.01	<.005	<1	7.42	1080				
12-13	<.01	<.005	1						
1990									
1-16	<.01	<.005	1	7.48	1060	<5	<5	<5	<15
2-15	<.01	<.005	<1	7.28	1030				
3-16	<.01	<.005	1	7.13	1060				
4-16	<.01	<.005	2	7.12	880	<5	<5	<5	<15
5-18	<.01	<.005	2	7.37	890				

MW7

DATE	CHROM TOT mg/l	LEAD TOT mg/l	OIL mg/l	PH	COND umho	BENZ ug/l	ETHY BENZ ug/l	TOL ug/l	XYL ug/l
1988									
1-20	<.01	<.01	2	6.98	1990	<5	<5	<5	<15
2-16	<.01	<.01	1	7.06	2080				
3-15			1	7.06	1900				
4-19	<.01	<.01	1	7.1	1930	<5		<5	<15
5-17	<.01	<.005	3	7.18	1860				
6-15	<.01	<.01	<1	7.03	1830				
7-15	<.01	<.01	<1	6.87	1800	<5		<5	<15
8-19	<.01	<.01	<1		1870				
9-8	<.01	<.01	<1	7.01	1830				
12-14	.01	<.01	3	6.92	1770				
1989									
1-17	<.01	0.01	<1	6.93	1940	<5	<5	<5	<15
2-16	<.01	<.01	2	6.83	1600				
3-17	<.01	<.005	2	7.16	1610				
4-18	<.01	<.005	2	6.95	1350	<5	<5	<5	<15
5-16	<.01	<.005	1	7.13	1210				
6-16	<.01	<.005	2	6.97	1190				
8-15	<.01	<.01	1	6.86	1870	<5		<5	<15
9-28	<.01	<.005	<1	6.99	1840				
10-23	<.01	<.005	<1	6.94	1750	<5	<5	<5	<15
11-13	<.01	<.005	<1	6.93	1770				
12-13	<.01	<.005	1						
1990									
1-16	<.01	<.005	<1	6.88	1620	<5	<5	<5	<15
2-15	<.01	<.005	<1	6.86	1490				
3-16	<.01	<.005	<1	6.83	1480				
4-16	<.01	<.005	<1	6.78	850	<5	<5	<5	<15
5-18	<.01	<.005	<1	6.97	900				

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. ____ in. Depth ____ ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled X. Finished in Drift X. In Rock ____.
   Tubular X. Gravel Packed ____.
   d. Grout:

	(KIND)	FROM (Ft.)	TO (Ft.)
DRILL CUTTINGS		0	90

2. Distance to Nearest:
   Building 22 Ft. — Seepage Tile Field ____
   Cess Pool ____ — Sewer (non Cast iron) ____
   Privy ____ — Sewer (Cast iron) ____
   Septic Tank 85 — Barnyard ____
   Leaching Pit ____ — Manure Pile ____
3. Well furnishes water for human consumption? Yes X No ____
4. Date well completed 8/11/86
5. Permanent Pump Installed? Yes X Date 8/11/86 No ____
   Manufacturer RED JACKET Type SUB Location WELL
   Capacity 5 gpm. Depth of Setting 45 Ft.
6. Well Top Sealed? Yes X No ____ Type ____
7. Pitless Adapter Installed? Yes X No ____
   Manufacturer BAKER Model Number 4PS4SSBWC OM
   How attached to casing? SCREWED
8. Well Disinfected? Yes X No ____
9. Pump and Equipment Disinfected? Yes X No ____
10. Pressure Tank Size ~~[illegible]~~ DIAPHRAM
    Location BASEMENT
11. Water Sample Submitted? Yes ____ No X

REMARKS:

Co # 21587

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner ____ Well No. 3
    Address EAST PEORIA, ILL.
    Driller WILLIAM MERRET License No. 100-359
11. Permit No. 23668 Date 1986
12. Water from DIRTY SAND Formation at depth 45 to 53 ft.
13. County TAZEWELL
    Sec. 34 NW
    Twp. 26N
    Rge. 4W
    Elev. ____
14. Screen: Diam. 4 in. Length: 3 ft. Slot 12
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	BLK ST. 11#	0	48

SHOW LOCATION IN SECTION PLAT
150'NL 150'WL NE

16. Size Hole below casing: ____ in.
17. Static level 36 ft. below casing top which is 1 ft. above ground level. Pumping level ____ ft. when pumping at 8 GPM gpm for 3 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
YELLOW SANDY CLAY	31	31
GRAY CLAY TR SAND	14	45
YELLOW CLAY, STG. WATER BEARING	8	53
DARK GRAY TO BLACK SHALE	16	69
DARK GRAY SHALE	19	87

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED W. M. Elert DATE 8/30/86

IDPH 4.065
1/74 -- KNB-1

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 6.., STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL /WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. ____ in. Depth ____ ft.
      Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ✓. Drive Pipe Diam. ✓ in. Depth ____ ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock ____.
      Tubular ✓. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
DRILL CUTTINGS	0	20

2. Distance to Nearest:
   Building 240 Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank ____ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes ✓ No ____
4. Date well completed 11-24-67
5. Permanent Pump Installed? Yes ____ No ✓
   Manufacturer ____ Type ____
   Capacity ____ gpm. Depth of setting ____ ft.
6. Well Top Sealed? Yes ✓ No ____
7. Pitless Adaptor Installed? Yes ____ No ✓
8. Well Disinfected? Yes ✓ No ____
9. Water Sample Submitted? Yes ____ No ✓

REMARKS:

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. NF 3011 Year 1967
11. Property owner ____ Well No. ____
    Address ____ ILL
    Driller [illegible] License No. [illegible]
12. Water from SAND & GRAVEL (Formation) 13. County TAZEWELL
    at depth 120 to 127 ft. Sec. 22 1d
14. Screen: Diam. 4 in. Twp. 26N
    Length: 3 ft. Slot 20 Rng. 4W
    Elev. ____

SHOW LOCATION IN SECTION PLAT
Permit 110'S, 150'W of NE/c SE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4"	BLK ST #11	0	124

16. Size Hole below casing: ____ in.
17. Static level 29 ft. below casing top which is 1 ft. above ground level. Pumping level ____ ft. when pumping at ____ gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
YELLOW CLAY	16	16
FINE SAND & CLAY	34	50
GRAY CLAY TR S & G	45	95
GREEN CLAY	10	105
GRAY CLAY TR S&G	15	120
SAND & GRAVEL	7	127
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED W. McElvert DATE 12-21-67

White Copy –
Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 4 in. Depth 70 ft.
   Curb material _____. Buried Slab: Yes_____ No_____
   b. Driven_____. Drive Pipe Diam._____in. Depth_____ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock_____.
   Tubular ✓. Gravel Packed_____.
   d. Grout:

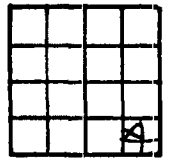
(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building _____ Ft. Seepage Tile Field _____
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast iron) _____
   Septic Tank _____ Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Is water from this well to be used for human consumption?
   Yes _____ No _____
4. Date well completed 1960
5. Permanent Pump Installed? Yes_____ No_____
   Manufacturer _____ Type_____
   Capacity _____gpm. Depth of setting _____ ft.
6. Well Top Sealed? Yes_____ No_____
7. Pitless Adaptor Installed? Yes ✓ No_____
8. Well Disinfected? Yes_____ No_____
9. Water Sample Submitted? Yes_____ No_____

REMARKS: Bowling Alley

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No._____ Year_____
11. Property owner_____ Well No._____
    Address_____ E. Peoria
    Driller Wm E Smith License No._____
12. Water from sand 13. County Tazewell
    Formation
    at depth 50 to 70 ft. Sec. 22, 26
    14. Screen: Diam._____in. Twp. 26N
    Length: 3 ft. Slot 20 Rng. 4W
    Elev._____



SHOW LOCATION IN SECTION PLAT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	steel pipe	0	67

16. Size Hole below casing:_____in. well flows
17. Static level 0 ft. below casing top which is_____ft. above ground level. Pumping level_____ft. when pumping at_____ gpm for_____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
sand @ 50'		
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED JPG DATE 7-23-68

White Copy – Ill. Dept of P[illegible]ic Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUES[illegible] AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 4 in. Depth 200 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ✓. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock ____.
   Tubular ✓. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building ____ Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank ____ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes ✓ No ____
4. Date well completed 1959
5. Permanent Pump Installed? Yes ____ No ____
   Manufacturer ____ Type ____
   Capacity ____ gpm. Depth of setting ____ ft.
6. Well Top Sealed? Yes ____ No ____
7. Pitless Adaptor Installed? Yes ____ No ____ Well seal.
8. Well Disinfected? Yes ____ No ____
9. Water Sample Submitted? Yes ____ No ____

REMARKS:

19'

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. ____ Year ____
11. Property owner [illegible] Well No. ____
    Address [illegible] Peoria, Ill.
    Driller Wm Ebert License No. ____
12. Water from St P (Formation) 13. County Tazewell
    at depth ____ to ____ ft. Sec. 27, 3e
14. Screen: Diam. 4 in. Twp. 26N
    Length: 3 ft. Slot 20 Rng. 4W
    Elev. ____

SHOW LOCATION IN SECTION PLAT

15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
4	Steel	0	197

16. Size Hole below casing: ____ in.
17. Static level 181 ft. below casing top which is 0 ft. above ground level. Pumping level ____ ft. when pumping at ____ gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
To state.		
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Harvey Petty DATE 8/6/68

White Copy
Ill. Dept. ublic Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION RE STED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material _____. Buried Slab: Yes_____No_____
   b. Driven_____. Drive Pipe Diam.____in. Depth_____ft.
   c. Drilled X. Finished in Drift X. In Rock_____.
   Tubular X. Gravel Packed_____. Depth 23 ft.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 200 Ft. Seepage Tile Field _____
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast Iron) _____
   Septic Tank 350 Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Is water from this well to be used for human consumption?
   Yes X No _____
4. Date well completed July 7, 1967
5. Permanent Pump Installed? Yes X No _____
   Manufacturer Red Jacket Type Sub. S150N1-9CB
   Capacity 25 gpm. Depth of setting 18 ft.
6. Well Top Sealed? Yes _____ No _____
7. Pitless Adaptor Installed? Yes X No _____
8. Well Disinfected? Yes X No _____
9. Water Sample Submitted? Yes _____ No X

REMARKS:

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. NF 2454 Year 1967
11. Property owner Dixon Fisheries Well No. 1
    Address 1807 North Main St., East Peoria, Ill.
    Driller Chris Ebert Co. License No. 92-499
12. Water from Sand & gravel Formation 13. County Tazewell
    at depth 19 to 23 ft.
14. Screen: Diam. 3 3/4 in.
    Length: 4 ft. Slot 35
    Sec. 27.59
    Twp. 26N
    Rng. 4W
    Elev. _____

		X	

15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
4	Standard Black	4	19

SHOW LOCATION IN SECTION PLAT
100'N, 1100'W
SE/c NW NE

16. Size Hole below casing: - - - in.
17. Static level 4 ft. below casing top which is one ft. above ground level. Pumping level 8 ft. when pumping at 60 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sandy brown dirt	6	6
Sandy yellow clay	6	12
Brown sand & gravel-some clay-very hard	3	15
Brown water sand	3	18
Medium to coarse brown sand & fine gravel	5	23
Medium gray water sand-some pebbles down		to 26 ft.
and gray shale at 26 ft.		
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Robert W. Ebert M. DATE Feb 12, 1969

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 4 in. Depth 228 ft.
   Curb material _____. Buried Slab: Yes_____ No_____
   b. Driven ✓. Drive Pipe Diam. _____ in. Depth _____ ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock _____.
   Tubular ✓. Gravel Packed _____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building _____ Ft. *Seepage Tile Field* _____
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast iron) _____
   Septic Tank _____ Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Is water from this well to be used for human consumption?
   Yes _____ No _____
4. Date well completed 1963
5. Permanent Pump Installed? Yes _____ No _____
   Manufacturer _____ Type _____
   Capacity _____ gpm. Depth of setting _____ ft.
6. Well Top Sealed? Yes _____ No _____
7. Pitless Adaptor Installed? Yes ✓ No _____
8. Well Disinfected? Yes _____ No _____
9. Water Sample Submitted? Yes _____ No _____

REMARKS:

40' of H_2O

Part one.

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. _____ Year _____
11. Property owner _____ Well No. _____
    Address East Peoria, Ill.
    Driller Wm Ebert License No. _____
12. Water from Sand & gravel (Formation) 13. County Tazewell
    at depth _____ to _____ ft.
    Sec. 27,3E
    Twp. 26N
    Rng. 4W
    Elev. _____
14. Screen: Diam. 4 in.
    Length: 3 ft. Slot 20

SHOW LOCATION IN SECTION PLAT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	Steel	0	225

16. Size Hole below casing: — in.
17. Static level 188 ft. below casing top which is 0 ft. above ground level. Pumping level — ft. when pumping at — gpm for — hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Not to shale		
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Harvey Petty DATE 7/18/68

White Copy — Ill. Dept. of Public Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 634, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled X. Finished in Drift X. In Rock____.
   Tubular X. Gravel Packed____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 5 Ft. Seepage Tile Field____
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank 60 Barnyard____
   Leaching Pit____ Manure Pile____
3. Is water from this well to be used for human consumption?
   Yes X No____
4. Date well completed April 21, 1967
5. Permanent Pump Installed? Yes X No____
   Manufacturer Red Jacket Type Sub
   Capacity 8 gpm. Depth of setting 171 ft.
6. Well Top Sealed? Yes X No____
7. Pitless Adaptor Installed? Yes X No____
8. Well Disinfected? Yes X No____
9. Water Sample Submitted? Yes____ No X

REMARKS:

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. NF 1704 Year 1966
11. Property owner____ Well No. 1
    Address 2 East Peoria
    Driller Lake & Ebert License No. 92-497
12. Water from Sand (Formation) 13. County Tazewell
    at depth 145 to 176 ft. Sec. 27
14. Screen: Diam. 3¾ in. Twp. 26N
    Length: 3 ft. Slot 16 Rng. 4W
    Elev.____

SHOW LOCATION IN SECTION PLAT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	Standard Blank	4'	173

16. Size Hole below casing:____in.
17. Static level 146 ft. below casing top which is 1 ft. above ground level. Pumping level 149 ft. when pumping at 12 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Fill	9	9
Yellow clay	23	32
Blue clay	29	61
Very sandy clay, some water	7	68
Blue clay	26	94
Dry yellow fine sand	23	117
Dry yellow sand & gravel	28	145
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Robert N. Ebert DATE June 28, 1967

Fine to medium water sand 26-171
Fine to coarse water sand some gravel 5'-176

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUES. .J AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 4 in. Depth 221 ft.
   Curb material ____. Buried Slab? Yes____ No____
   b. Driven ✓. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock ____.
   Tubular ✓. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

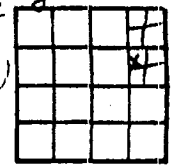
2. Distance to Nearest:
   Building ____ Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank ____ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes ✓ No ____
4. Date well completed 1959
5. Permanent Pump Installed? Yes____ No____
   Manufacturer ____ Type ____
   Capacity ____ gpm. Depth of setting ____ ft.
6. Well Top Sealed? Yes____ No____
7. Pitless Adaptor Installed? Yes ✓ No____
8. Well Disinfected? Yes____ No____
9. Water Sample Submitted? Yes____ No____

REMARKS:

no water level given.

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. ____ Year ____
11. Property owner ____ Well No. East Peoria, Ill.
    Address ____
    Driller Wm Ebert License No. ____
12. Water from 5 + Gravel (Formation) 13. County Tazewell
    at depth ____ to ____ ft. Sec. 17 2
    14. Screen: Diam. 4 in. Twp. 26N
    Length: 3 ft. Slot 20 Rng. 4W
    Elev. ____



SHOW LOCATION IN SECTION PLAT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	Steel	0	218

16. Size Hole below casing: ____ in.
17. Static level ____ ft. below casing top which is 0 ft. above ground level. Pumping level ____ ft. when pumping at ____ gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Harvey Petty DATE 8/6/68

White Copy –
Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

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1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 4 in. Depth 102 ft.
   Curb material _____. Buried Slab: Yes_____ No_____
   b. Driven _____. Drive Pipe Diam. _____in. Depth _____ft.
   c. Drilled _____. Finished in Drift _____. In Rock _____.
   Tubular _____. Gravel Packed _____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building _____ Ft. Seepage Tile Field _____
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast iron) _____
   Septic Tank _____ Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Is water from this well to be used for human consumption?
   Yes _____ No _____
4. Date well completed _____
5. Permanent Pump Installed? Yes_____ No_____
   Manufacturer _____ Type _____
   Capacity _____gpm. Depth of setting _____ ft.
6. Well Top Sealed? Yes _____ No _____
7. Pitless Adaptor Installed? Yes_____ No_____
8. Well Disinfected? Yes _____ No _____
9. Water Sample Submitted? Yes_____ No_____

REMARKS:

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. _____ Year _____
11. Property owner _____ Well No. _____
    Address East Peoria, Ill
    Driller Wm Ebert License No. _____
12. Water from _____ (Formation) 13. County Tazewell
    at depth _____ to _____ ft.
    Sec. 27 2E
    Twp. 26N
    Rng. 4W
    Elev. _____
14. Screen: Diam. _____ in.
    Length: 2 ft. Slot 20
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)

SHOW LOCATION IN SECTION PLAT

16. Size Hole below casing: _____ in.
17. Static level _____ ft. below casing top which is _____ ft. above ground level. Pumping level _____ ft. when pumping at _____ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Harvey Petty DATE 8/13/68

White Copy – Ill. Dept. of Public Health
Yellow Copy -- Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUES. J AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 4 in. Depth 200 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ✓. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock ____.
   Tubular ✓. Gravel Packed ____.
   d. Grout:

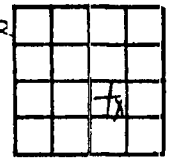
(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building ____ Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank ____ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes ✓ No ____
4. Date well completed 1959
5. Permanent Pump Installed? Yes ____ No ____
   Manufacturer ____ Type ____
   Capacity ____ gpm. Depth of setting ____ ft.
6. Well Top Sealed? Yes ____ No ____
7. Pitless Adaptor Installed? Yes ____ No ____ Well seal.
8. Well Disinfected? Yes ____ No ____
9. Water Sample Submitted? Yes ____ No ____

REMARKS:
19'

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. ____ Year ____
11. Property owner ____ Well No. ____
    Address ____ East Peoria, Ill.
    Driller Wm Eiberf License No. ____
12. Water from Stc (Formation)
    at depth ____ to ____ ft.
13. County Tazewell
    Sec. 27, 32
    Twp. 26N
    Rng. 4W
    Elev. ____



SHOW LOCATION IN SECTION PLAT

14. Screen: Diam. 4 in.
    Length: 3 ft. Slot 20
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	steel	0	197

16. Size Hole below casing: — in.
17. Static level 181 ft. below casing top which is 0 ft. above ground level. Pumping level — ft. when pumping at — gpm for — hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
To stele.		
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Harvey Petty DATE 8/6/68

White Copy –
Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____, Bored ____, Hole Diam. 4 in. Depth 244 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock ____.
   Tubular ✓. Gravel Packed ____.
   d. Grout:

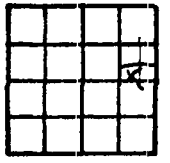
(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building ____ Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank ____ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes ____ No ____
4. Date well completed 1962
5. Permanent Pump Installed? Yes ____ No ____
   Manufacturer ____ Type ____
   Capacity ____ gpm. Depth of setting ____ ft.
6. Well Top Sealed? Yes ____ No ____
7. Pitless Adaptor Installed? Yes ✓ No ____
8. Well Disinfected? Yes ____ No ____
9. Water Sample Submitted? Yes ____ No ____

REMARKS: '59'

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. ____ Year ____
11. Property owner ____ Well No. ____
    Address ____ East Peoria, Ill.
    Driller Wm Ebert License No. ____
12. Water from ____ (Formation)
    at depth ____ to ____ ft.
13. County Tazewell
    Sec. 27 Se
    Twp. 26 N
    Rng. 4W
    Elev. ____
14. Screen: Diam. 4 in.
    Length: 3 ft. Slot 20



SHOW LOCATION IN SECTION PLAT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	Steel	0	241

16. Size Hole below casing: — in.
17. Static level 125 ft. below casing top which is 0 ft. above ground level. Pumping level — ft. when pumping at — gpm for — hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Nat		
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Harvey Petty DATE 7/23/68

White Copy –
Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH 37½
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 4 in. Depth 228 ft.
   Curb material _____. Buried Slab: Yes_____No_____
   b. Driven _____. Drive Pipe Diam. _____in. Depth _____ft.
   c. Drilled ✓. Finished in Drift ✓. In Rock _____.
   Tubular ✓. Gravel Packed _____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building _____ Ft. Seepage Tile Field _____
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast iron) _____
   Septic Tank _____ Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Is water from this well to be used for human consumption?
   Yes _____ No _____
4. Date well completed 1962
5. Permanent Pump Installed? Yes_____ No_____
   Manufacturer _____ Type _____
   Capacity _____gpm. Depth of setting _____ ft.
6. Well Top Sealed? Yes ✓ No _____
7. Pitless Adaptor Installed? Yes_____ No ✓
8. Well Disinfected? Yes _____ No _____
9. Water Sample Submitted? Yes_____ No_____

REMARKS:

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. _____ Year _____
11. Property owner _____ Well No. _____
    Address E. Peoria
    Driller Wm E Bert License No. _____
12. Water from _____ (Formation)
    at depth _____ to 228 ft.
13. County Tazewell
    Sec. 27. 2e
    Twp. 26N
    Rng. 4W
    Elev. _____
14. Screen: Diam. 4 in.
    Length: 3 ft. Slot 20

SHOW LOCATION IN SECTION PLAT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	steel pipe	0	225

16. Size Hole below casing: _____ in.
17. Static level 190½ ft. below casing top which is @ _____ ft. ~~above~~ ground level. Pumping level _____ ft. when pumping at _____ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
not to shale		
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Jpg DATE 7-23-68

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUIRED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ___. Bored ___. Hole Diam. ___ in. Depth ___ ft.
   Curb material ___. Buried Slab: Yes ___ No ___
   b. Driven ___. Drive Pipe Diam. ___ in. Depth ___ ft.
   c. Drilled X. Finished in Drift X. In Rock ___.
   Tubular X. Gravel Packed ___.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
DRILL CUTTINGS	0	90

2. Distance to Nearest:
   Building 22 Ft. — Seepage Tile Field ___
   Cess Pool ___ — Sewer (non Cast Iron) ___
   Privy ___ — Sewer (Cast Iron) ___
   Septic Tank 75 — Barnyard ___
   Leaching Pit ___ — Manure Pile ___
3. Well furnishes water for human consumption? Yes X No ___
4. Date well completed 8/11/86
5. Permanent Pump Installed? Yes X Date 8/11/86 No ___
   Manufacturer RED JACKET Type SUB Location WELL
   Capacity 5 gpm. Depth of Setting 45 Ft.
6. Well Top Sealed? Yes X No ___ Type ___
7. Pitless Adapter Installed? Yes X No ___
   Manufacturer BAKER Model Number 4P5545BWC OM
   How attached to casing? SCREWED
8. Well Disinfected? Yes X No ___
9. Pump and Equipment Disinfected? Yes X No ___
10. Pressure Tank Size ~~[illegible]~~ DIAPHRAM
    Location BASEMENT
11. Water Sample Submitted? Yes ___ No X

REMARKS:

Co # 21587

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner [illegible] B Well No. 2
    Address AST PEORIA, ILL.
    Driller WILLIAM MCKEE License No. 100359
11. Permit No. 53666 Date 1986
12. Water from DIRTY SAND Formation
    at depth 45 to 53 ft.
13. County TAZEWELL
    Sec. 34 Twp. 26N Rge. 4W Elev. ___
14. Screen: Diam. 4 in.
    Length: 3 ft. Slot 12
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	BLK ST. 11#	0	48

SHOW LOCATION IN SECTION PLAT
150'NL 150'WL
NE

16. Size Hole below casing: ___ in.
17. Static level 36 ft. below casing top which is 1 ft. above ground level. Pumping level ___ ft. when pumping at 8 MAX gpm for 3 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
YELLOW SANDY CLAY	31	31
GRAY CLAY TR SAND	14	45
YELLOW CLAY, STG WATER DRIVE	8	53
DARK GRAY TO BLACK SHALE	16	69
DARK GRAY SHALE	19	87

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED W. M. Elert DATE 8/30/86

WELL LOG 1

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

TEST HOLE	Thickness	Top	Bottom
Asphalt		0	4"
Gravel		4"	1
Brown clay		1	12
Brown clayey silt with sand seams		12	18
Gray very silty clay, occasional sand seam		18	50
Sticky gray silty clay, sand seams		50	73
Fine sand to coarse gravel and boulders. Mud Loss: 3" Mud Weight: 9.5		73	88
Gravel and boulders with sand intermixed		88	91
Gray shale		91	96
			TD

Set 2" pipe to 90' with bottom 20' slotted pumped with contractors pump 4 hours at approximately 50 gpm

Static water level: 9'

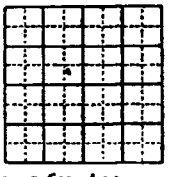
Size Mud Pit: Length 6', Width 4'

Split-spoon sample at 77-78.5'

S.S.# 60291

NO ENVELOPE

COMPANY Layne-Western Co.
FARM East Peoria NO. 3-76
DATE DRILLED January 20, 1976 COUNTY NO. 21068
AUTHORITY Company
ELEVATION
LOCATION Ap. 2100'N line, 2100'W line of NW
COUNTY TAZEWELL



32-26N-4W

WELL LOG 2

ILLINOIS GEOLOGICAL SURVEY, URBANA

Permit #46702	Thickness	Top	Bottom
Miscellaneous fill		0	1
Brown very sandy clay		1	6
Brown medium sand to coarse gravel (loose), trace fine sand, some boulders		6	44
Gray shale		44	46
Total depth			46

Casing: 29' of 12" .330" steel with welded joints +2' - 27'

Screen: 17' of 12" diameter, .120" stainless steel, with welded joints 27' - 44'

Hole record: 48" 0' - 10'
38" 10' - 46'

Well test data: Static level 19', pumping level 23' after 5½ hours pumping at 412 gpm. Length of test: 8½ hours.

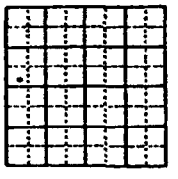
S.S. #60629

Test hole data: Set 2" pipe to 45' with bottom 25' slotted pumped with contractor's pump. Pumping about 50 gpm for 4 hours. Static water level: 15' Size mud pit: Length 5', Width 4'

S.S. #60293

NO ENVELOPE

COMPANY Layne-Western Co., Inc. 1-76
FARM East Peoria NO. 9
DATE DRILLED January 15, 1976 COUNTY NO. 21066
AUTHORITY Company
ELEVATION
LOCATION 300' S line, 400' W line, NW
COUNTY TAZEWELL



33-26N-4W

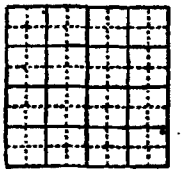
(22844—50M—9-55)

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Fill	4		4
Black loam	5		9
Bluegray clay	4		13
Blue clay	21		34
Sand and fine gravel (dirty)	4		38
Blue clay	22		60
Blue clay and fine sand	7		67
Fine sand (dirty)	2		69
Gray clay and small amounts sand	7½		77½
Sand and gravel			86
black iron pipe			TD
Casing: 4 ″ from 0 to 80'.			
Static water level 11 feet.			
Tested capacity 12 gal. per min. Lenght of test 3hrs.30min.			
Summary Sample Study by G.H. Emrich	6/56		
PLEISTOCENE SERIES			
No sample	4		4
Till or soil, brown, leached	5		9
Till, yellowish gray, oxidized, calcareous.	4		13
Till, silty, gray, calcareous.	21		34
Gravel, silty, calcareous.	4		38
Till, silty, gray to buff, calcareous	29		67
Sand and till, gray, calcareous.	2		69
Till, sandy, gray to buff, calcareous.	8		77
Gravel and till, calcareous.	2		79
Gravel, clacareous, clean.	4		83
Gravel and sand, silty, calcareous; shale at bottom (Pennsylvanian)	3		86
S.S. # 26485			

COMPANY M. Ebert
FARM Caterpillar Tractor Co. NO. 2
DATE DRILLED 1956 COUNTY NO. 37
AUTHORITY W. M. Ebert
ELEVATION 441' Est. TM
LOCATION 100' W & 1065'N of SEc.
COUNTY Tazewell



31-26N-4W

WELL LOG 4

ILLINOIS GEOLOGICAL SURVEY, URBANA

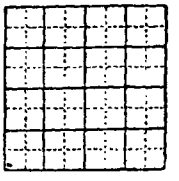
TEST HOLE	Thickness	Top	Bottom
Miscellaneous fill		0	5
Brown silty clay		5	9
Brown silty sandy clay		9	23
Sand and gravel		23	25
Gray silty sandy clay		25	28
Fine sand to coarse gravel loose, Mud Loss:12", Mud Weight: 9.5		28	34
Blue gray clay		34	48
Blue gray shale		48	60
			TD

Size Mud Pit: Length:6', Width4'

S.S.# 60290

NO ENVELOPE

COMPANY Layne-Western Co.
FARM East Peoria NO. 4-76
DATE DRILLED January 21, 1976 COUNTY NO. 21069
AUTHORITY Company
ELEVATION
LOCATION Ap. 50'S.line, 90'W line of SW
COUNTY TAZEWELL



33-26N-4W

WELL LOG 5

White Copy — Ill. Dept. of Public Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 61b, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material_____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled X. Finished in Drift X. In Rock____.
   Tubular X. Gravel Packed_____. Depth 23 ft.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distances to Nearest:
   Building 200 Ft. Seepage Tile Field_____
   Cess Pool_____ Sewer (non Cast iron)_____
   Privy_____ Sewer (Cast iron)_____
   Septic Tank 350 Barnyard_____
   Leaching Pit_____ Manure Pile_____
3. Is water from this well to be used for human consumption?
   Yes X No_____
4. Date well completed July 7, 1967
5. Permanent Pump Installed? Yes X No_____
   Manufacturer Red Jacket Type Sub. S150N1-9CB
   Capacity 25 gpm. Depth of setting 18 ft.
6. Well Top Sealed? Yes_____No_____
7. Pitless Adaptor Installed? Yes X No_____
8. Well Disinfected? Yes X No_____
9. Water Sample Submitted? Yes_____No X

REMARKS:

WELL LOG 6

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. NF 2454 Year 1967
11. Property owner Dixon Fisheries Well No. 1
    Address 807 North Main St., East Peoria, Ill.
    Driller Chris Ebert Co. License No. 92-499
12. Water from Sand & gravel 13. County Tazewell
    at depth 19 to 23 (Bedrock) ft. Sec. 27 SW
14. Screen: Diam. 3 3/4 in. Twp. 26N
    Length: 4 ft. Slot 35 Rng. 4W
    Elev.____

SHOW LOCATION IN SECTION PLAT
100'N, 1100'W
SE/c NW N.

15. Casing and Liner Pipe

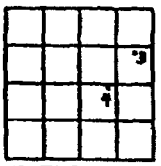
Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	Standard Black	4	19

16. Size Hole below casing: - - - in.
17. Static level 4 ft. below casing top which is one ft. above ground level. Pumping level 8 ft. when pumping at 60 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sandy brown dirt	6	6
Sandy yellow clay	6	12
Brown sand & gravel-some clay-very hard	3	15
Brown water sand	3	18
Medium to coarse brown sand & fine gravel	5	23
Medium gray water sand-some pebbles down		to 26 ft.
and gray shale at 26 ft.		
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Robert W. Ebert M. DATE Feb 12, 1969

Town East Peoria Township Fondulac Map No. 3
Company John Bolliger & Sons No. R. 4W
Farm T. P. & W. R.R. No. T. Sec.
Authority Driller's log 31
Elevation 26
Collector K. O. Emery N
Confidential Date Drilled



No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Well #3				
	Elev. 439				
	1500' N. line, 700' E. line				
	Soil and clay, brown	4		4	
	Clay, brown	4		8	
	Clay, blue	22		30	
	Sand and gravel	10		40	
	Clay, blue	1		41	
	Sand and gravel, fine	3		44	
	Shale, soft				
	COUNTY NO. 235				
	Well #4				
	Elev. 439				
	2700' N. line, 1600' E. line				
	Soil and clay, brown	4		4	
	Clay, brown	4		8	
	Clay, blue	19		27	
	Gravel, coarse	12		39	
	Sand, coarse	5		44	
	Shale				

NO ENVELOPE
STRIP FILED

COUNTY Tazewell INDEX NO. 0331
DRILL RECORD
31-26N-4W
(12256—2M) ILLINOIS GEOLOGICAL SURVEY, URBANA (12-41)

WELL LOG 7

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

M E M O R A N D U M

DATE: January 9, 1990
TO: Corporate Staff
FROM: Michael D'Auben MD
SUBJECT: Petroleum Products

This memo is a brief summary of the composition of petroleum products, including gasoline, kerosene, diesel fuel, heating oil and tar. All of these products are complex mixtures of hundreds of hydrocarbons. Only a small number of these are members of the TCL list.

Gasoline is composed of almost 100% volatiles, and about 50% of these are aromatics such as benzene. In addition to these volatiles, there are traces (< 1%) of semivolatiles such as PAHs. Kerosene has less volatiles, about 80%, and only about 14% of these are aromatics. Of the remaining fraction, there are about 6% PAHs. Diesel fuel (No. 2 fuel oil) has only about 50% volatiles and only about 4% of these are aromatics. Diesel fuel does have a much larger percentage of PAHs, over 30%. Finally, tar is almost all semivolatiles, mainly PAHs, with only small amounts of aromatics (< 5%). In composition, heating oil falls somewhere between diesel fuel and tar.

There are two analyses commonly used to test for petroleum products, oil and grease (O & G) and total hydrocarbons (TPH). For the O & G analysis, the sample is extracted with a solvent such as Freon or hexane. The solvent is then either evaporated to dryness and the residue weighed (gravimetric analysis) or measured in an infrared spectrometer (spectroscopic analysis). Because the solvent is evaporated, the first method is unsuitable for samples containing gasoline, kerosene or diesel fuel

since most of these will be lost to volatilization. The second method is somewhat better for these light products, although losses of 50% or more for gasoline can be expected. The TPH analysis is similar to the spectrographic O & G analysis, but the extract is treated to remove non-petroleum (naturally occurring) oils which show up in the oil & grease analysis. The detection limits for all of these methods can reach 1 ppm if the analyst is competent.

SOME COMMON PETROLEUM PRODUCTS
(in order of increasing density and decreasing volatility)

Gasoline
Kerosene/jet fuel
Diesel fuel
Heating oil
Motor oil
Tar

SOME COMMON PETROLEUM COMPONENTS

Volatiles
ethylbenzene
benzene
styrene
toluene
xylene

Semivolatiles
acenaphthalene
naphthalene
2-methylphenol
4-methylphenol
anthracene
phenanthrene
fluorene
phenol

REFERENCES

Kawahara, F. K., Characterization and Identification of Spilled Residual Fuel Oil by Gas Chromatography and Infrared Spectroscopy, U.S. EPA, 1971.

Coleman, W. E., et. al., "The Identification and Measurement of Components in Gasoline, Kerosene, and No. 2 Fuel Oil that Partition in the Aqueous Phase After Mixing", Archives of Environmental Toxicology, 1984.

Environmental Monitoring & Support Laboratory, Methods for Chemical Analysis of Water and Waste, U.S. EPA, 1983.

Hawley, G. G., The Condensed Chemical Dictionary, Van Nostrand Reinhold Co., 1981.